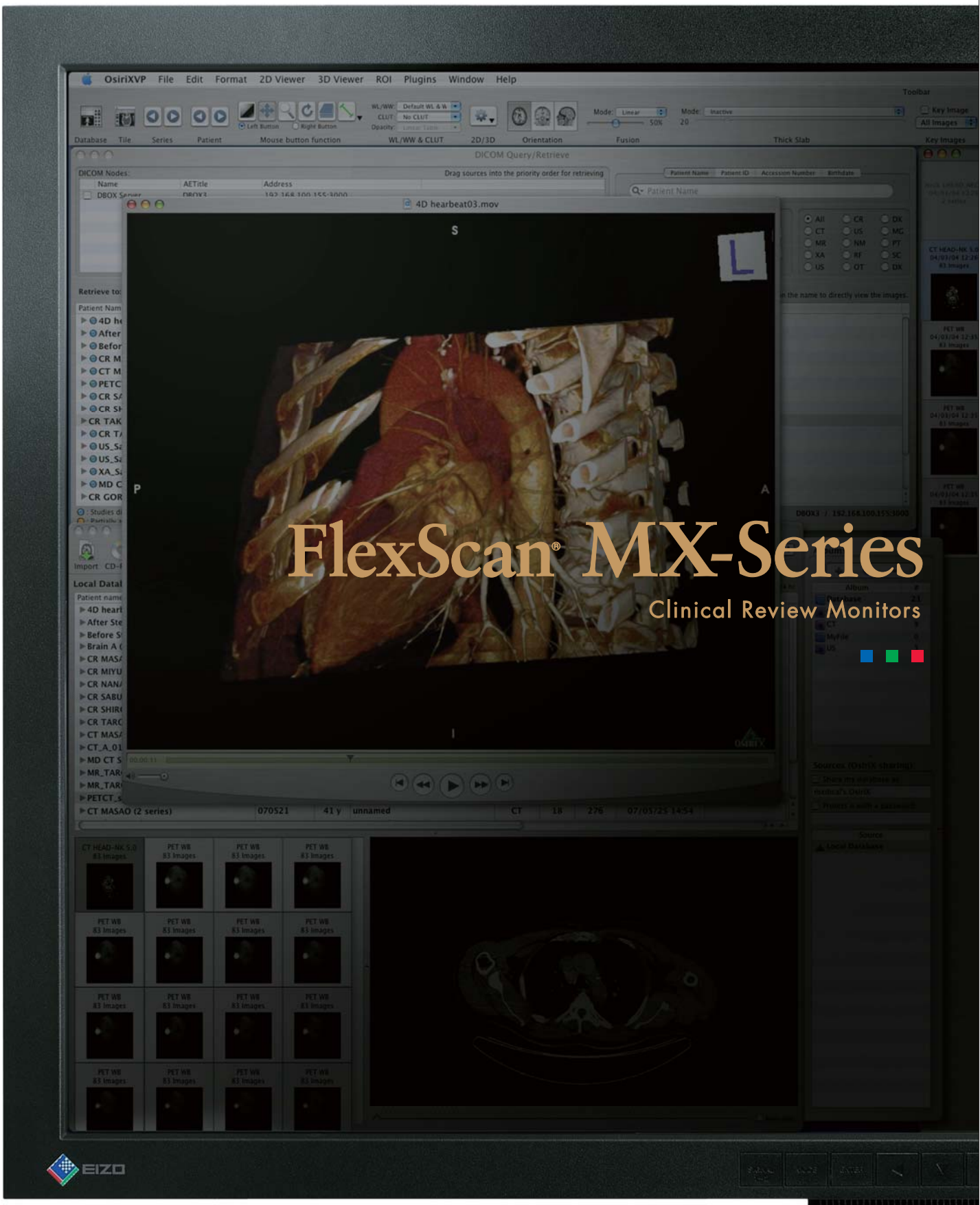
EIZO



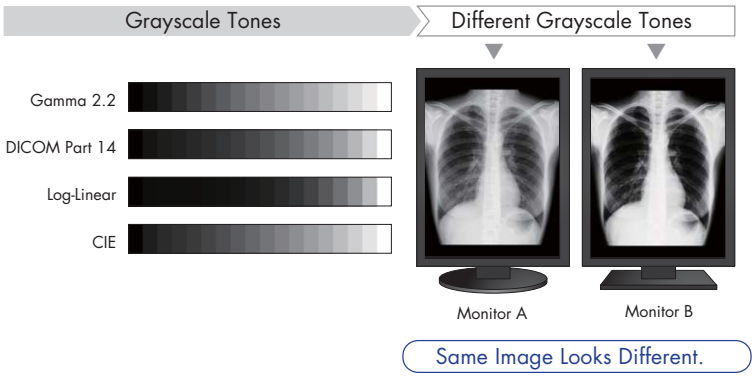
FlexScan® MX-Series

Clinical Review Monitors

Selecting the optimum monitor for clinical review

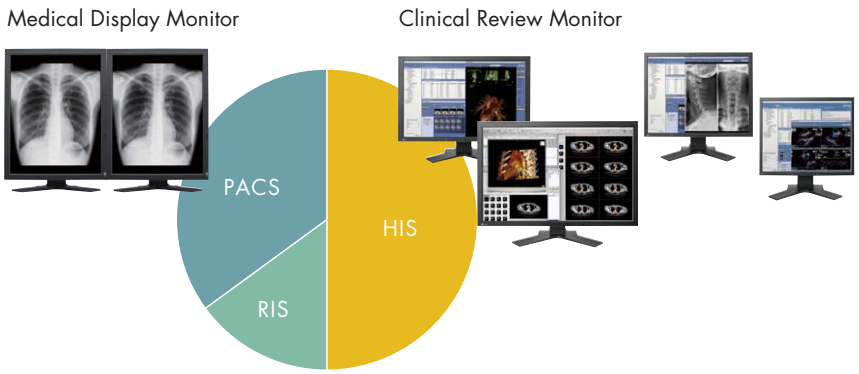
Display Differs Depending Upon Grayscale Tones

Standard monitors for general use have grayscale tone characteristics which may vary even between the same models. In the medical field, monitors must display medical images properly and consistently. Digital Imaging and Communications in Medicine (DICOM) Part 14 specifies a display function for grayscale which is now used as a standard to adjust the grayscale tone characteristics of monitors used in the medical field.

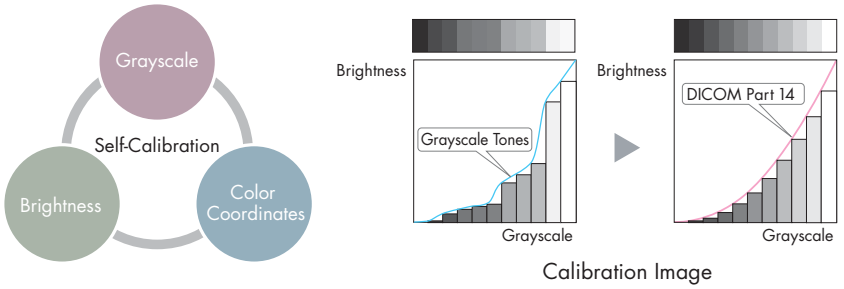


Clinical Review Monitors with Calibration to the DICOM Part 14 Standard

Medical images can now be reviewed with patient charting applications. However, it is costly for hospitals to install high-performance, DICOM calibration compatible medical display monitors throughout the entire hospital.



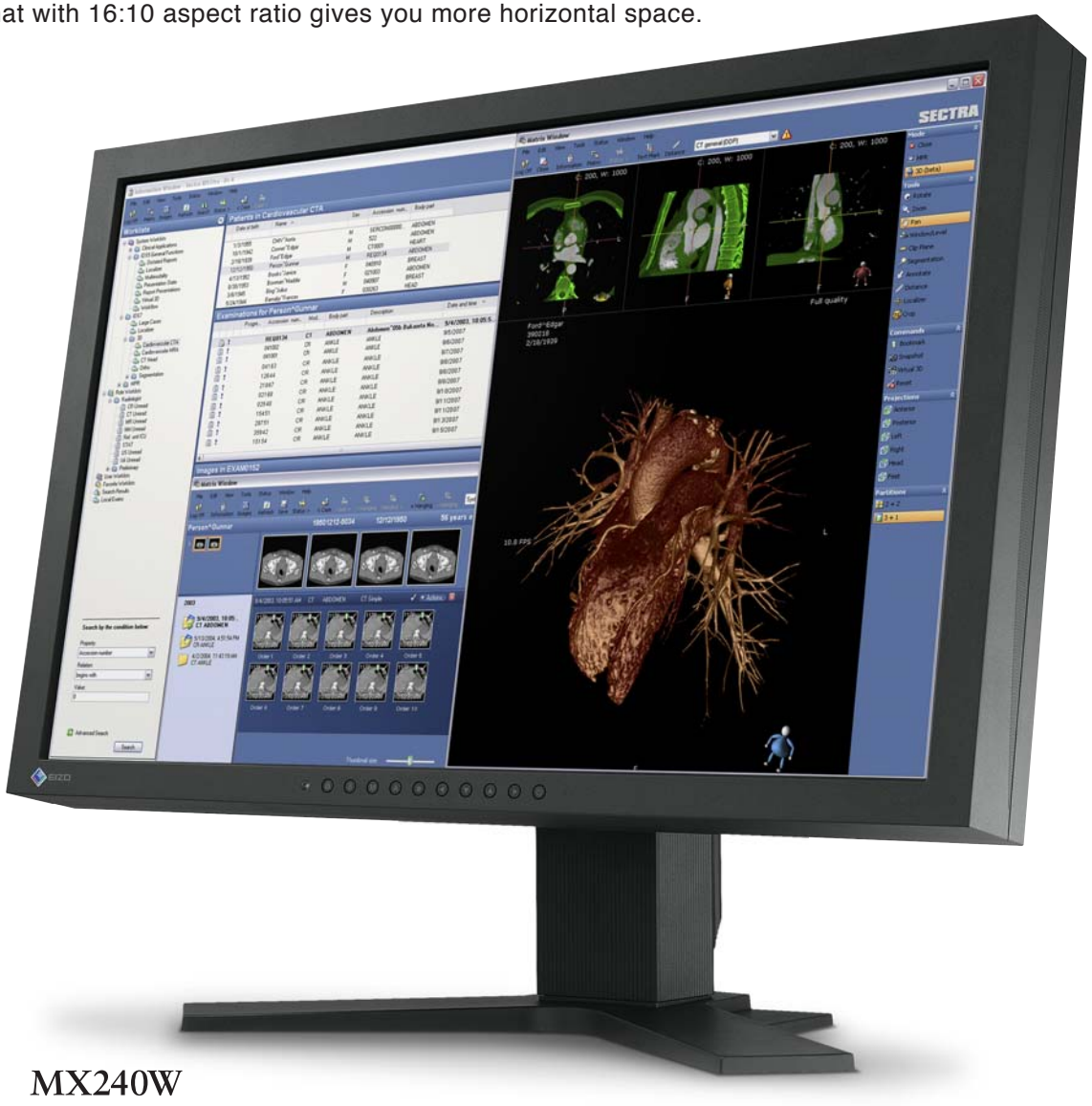
With the bundled RadiCS LE quality control software installed, a self-diagnosis function using a built-in backlight sensor periodically checks the brightness of FlexScan MX-Series monitors. When a change in the brightness is detected, the self-calibration function performs a simplified calibration compliant with the DICOM Part 14 standard to correct grayscale tones, brightness and color coordinates of the monitor.



4MP WIDE **FlexScan® MX300W** 76 cm 29.8" COLOR LCD MONITOR

2.3MP WIDE **FlexScan® MX240W** 61 cm 24.1" COLOR LCD MONITOR

Calibration compliant with the DICOM Part 14 standard.
Widescreen format with 16:10 aspect ratio gives you more horizontal space.

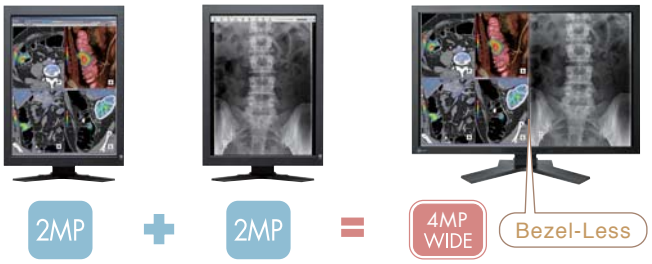


MX240W

4 Megapixel Bezel-Less Widescreen

Displaying 4 megapixel information volume on one monitor improves your working efficiency and cost performance. No bezels in between requires less eye movement with less stress as compared with dual 2 MP monitors.

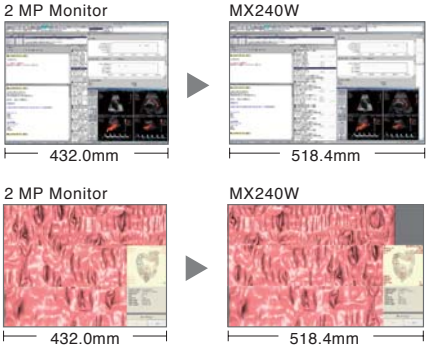
MX300W only.



More Comfortable Working Space with Widescreen

With a 16:10 aspect ratio, you can view patient charts and DICOM medical images with no overlap. The increased horizontal space this affords means you can also view whole intestinal images along with the navigation window.

MX300W and MX240W only.



[MX240W Usage Example]

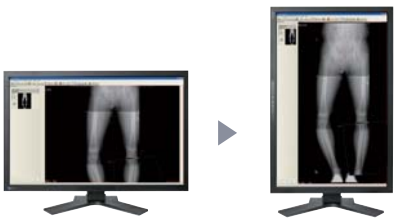
MX300W

Portrait Mode Support

90° pivot for portrait mode gives you versatility with images or applications requiring more vertical viewing space.

Graphics board that supports portrait mode is required.

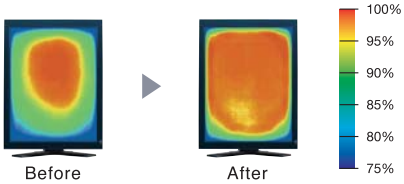
[MX300W Usage Example]



DUE for Brightness Uniformity

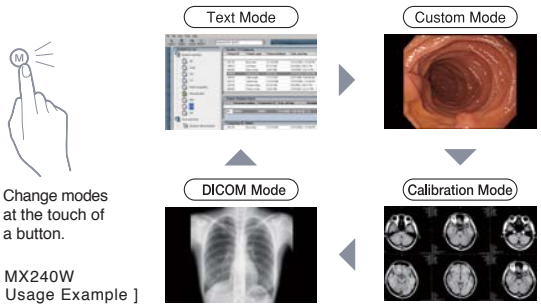
The Digital Uniformity Equalizer (DUE) function provides optimum backlight luminance uniformity which is considered difficult to attain due to the characteristics of LCD monitors.

MX300W and MX240W only.



Calibration Mode Selection

Selectable with the front panel buttons, the CAL Switch function allows for various calibration modes of different modalities such as CR, CT, and endoscope images. Furthermore, auto mode settings can be made with the Auto CAL Switch function.



[MX240W Usage Example]

2MP FlexScan® MX210 54 cm 21.3" COLOR LCD MONITOR

1MP FlexScan® MX190 48 cm 19" COLOR LCD MONITOR

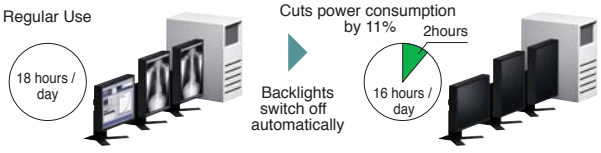
Calibration compliant with the DICOM Part 14 standard.
Ideal for viewing patient charts with MRI and CT medical images.

MX210

MX190

Backlight Saver

The Backlight Saver function allows for the monitor's backlight to turn off when the screen saver is activated and the monitor's backlight to turn on when the computer comes out of the screen saver mode. This function helps to reduce power consumption when the monitor is used for a prolonged period of time.



Full 5-Year Warranty

EIZO and its authorized distributors offer a five-year limited warranty for all FlexScan MX-Series monitors.

5 Year Warranty 5

The product shall be free from defects in material and workmanship for a period of five (5) years, but subject to the usage time being 30,000 hours or less from the date of purchase. The warranty period for the LCD panel and backlight is limited to three (3) years from the date of purchase.

More Precise Calibration with UX1 Sensor

By using the UX1 sensor (sold separately) with the bundled RadiCS LE software, more precise calibration compliant with the DICOM Part 14 standard can be performed.

Monitor Quality Control Standards Compliance

Quality control tool RadiCS UX1 (sold separately) enables you to perform basic quality checks necessary for clinical review monitors. In addition, high-performance calibration compliant with the DICOM Part 14 standard corrects the fluctuation in monitor quality.

FlexScan MX300W

76 cm 29.8" COLOR LCD MONITOR

FlexScan MX240W

61 cm 24.1" COLOR LCD MONITOR

FlexScan MX210

54 cm 21.3" COLOR LCD MONITOR

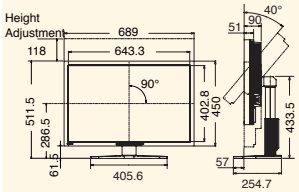
FlexScan MX190

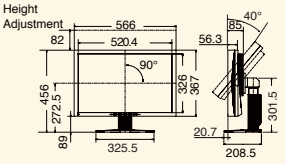
48 cm 19" COLOR LCD MONITOR

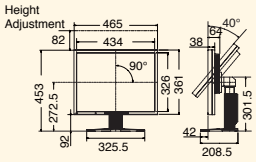
	MX300W	MX240W	MX210	MX190
Model Variations	MX300W: without Panel Protector MX300W-C: with Panel Protector			
Cabinet Color	Black	Black, Gray	Black, Gray	Black, Gray
Panel	TFT Color LCD Panel (VA)	TFT Color LCD Panel (VA)	TFT Color LCD Panel (VA)	TFT Color LCD Panel (VA)
Active Display Size (H x V)	641.3 x 400.8 mm	518.4 x 324.0 mm	432.0 x 324.0 mm	376.3 x 301.0 mm
Viewable Image Size	Diagonal: 756 mm	Diagonal: 611 mm	Diagonal: 540 mm	Diagonal: 481 mm
Native Resolution	2560 x 1600	1920 x 1200	1600 x 1200	1280 x 1024
Pixel Pitch	0.2505 x 0.2505 mm	0.270 x 0.270 mm	0.270 x 0.270 mm	0.294 x 0.294 mm
Display Colors	16.77 million from a palette of 1.06 billion colors	16.77 million from a palette of 1.06 billion colors	16.77 million from a palette of 1.06 billion colors	16.77 million from a palette of 1.06 billion colors
Viewing Angles (H, V)	178°, 178°	178°, 178°	178°, 178°	178°, 178°
Brightness	MX300W: 300 cd/m² (typical) MX300W-C: 265 cd/m² (typical)	320 cd/m² (typical)	300 cd/m² (typical)	280 cd/m² (typical)
Contrast Ratio	1000:1 (typical)	850:1 (typical)	1000:1 (typical)	1000:1 (typical)
On/Off Response Time	12 ms (typical)	16 ms (typical)	16 ms (typical)	16 ms (typical)
Midtone Response Time [1]	6 ms (typical)	6 ms (typical)	8 ms (typical)	8 ms (typical)
Scanning Frequency (H, V)	Digital: 31 - 100 kHz, 25.5 - 61 Hz (VGA Text: 69 - 71 Hz) Frame synchronous mode: 59 - 61 Hz	Analog: 24 - 94 kHz, 49 - 86 Hz (1600 x 1200: 76 Hz, 1920 x 1200: 61 Hz) Digital: 31 - 76 kHz, 59 - 61 Hz (VGA Text: 69 - 71 Hz) Frame synchronous mode: 59 - 61 Hz	Analog: 24 - 80 kHz, 49 - 76 Hz (1600 x 1200: 61 Hz) Digital: 31 - 76 kHz, 59 - 61 Hz (VGA Text: 69 - 71 Hz) Frame synchronous mode: 59 - 61 Hz	Analog: 24.8 - 80 kHz, 50 - 75 Hz Digital: 31 - 64 kHz, 59 - 61 Hz (VGA Text: 69 - 71 Hz)
Dot Clock	Digital: 269 MHz	Analog: 202.5 MHz Digital: 162 MHz	Analog: 162 MHz Digital: 162 MHz	Analog: 135 MHz Digital: 108 MHz
Input Signals	DVI Standard 1.0	Analog: RGB Analog Digital: DVI Standard 1.0	Analog: RGB Analog Digital: DVI Standard 1.0	Analog: RGB Analog Digital: DVI Standard 1.0
Sync Formats	—	Separate, Composite	Separate, Composite	Separate
Input Terminal	DVI-D 24 pin x 2 (Dual Link supported by Signal 1 only)	DVI-I 29 pin x 2	D-Sub mini 15 pin, DVI-I 29 pin	D-Sub mini 15 pin, DVI-D 24 pin
USB Ports	1 upstream, 2 downstream	1 upstream, 2 downstream	1 upstream, 2 downstream	1 upstream
USB Standard	Standard Rev. 2.0	Standard Rev. 2.0	Standard Rev. 2.0	Standard Rev. 2.0
Power Requirements	AC 100 - 120 V, 200 - 240 V: 50 / 60 Hz	AC 100 - 120 V, 200 - 240 V: 50 / 60 Hz	AC 100 - 120 V, 200 - 240 V: 50 / 60 Hz	AC 100 - 120 V, 200 - 240 V: 50 / 60 Hz
Power Consumption	170 watts	110 watts	70 watts	50 watts
Power Save Mode	Less than 2 watts	Less than 2 watts	Less than 2 watts	Less than 0.8 watts
Sensor	Backlight Sensor	Backlight Sensor	Backlight Sensor	Backlight Sensor
Power Management	Digital: DVI DMPM	Analog: VESA DPMS Digital: DVI DMPM	Analog: VESA DPMS Digital: DVI DMPM	Analog: VESA DPMS Digital: DVI DMPM
OSD Languages	English, German, French, Italian, Japanese, Simplified Chinese, Spanish, Swedish, Traditional Chinese	English, German, French, Italian, Japanese, Simplified Chinese, Spanish, Swedish, Traditional Chinese	English, German, French, Italian, Japanese, Spanish, Swedish	English, German, French, Italian, Japanese, Simplified Chinese, Spanish, Swedish, Traditional Chinese
Net Weight	With Stand: MX300W 15.7 kg / MX300W-C 16.4 kg Without Stand: MX300W 11.2 kg / MX300W-C 11.9 kg	With Stand: 10.4 kg Without Stand: 7.4 kg	With Stand: 9.7 kg Without Stand: 6.7 kg	With Stand: 7.2 kg Without Stand: 5.2 kg
Hole Spacing	VESA standard (100 x 100 mm)	VESA standard (100 x 100 mm)	VESA standard (100 x 100 mm)	VESA standard (100 x 100 mm)
Certifications and Standards	TÜV/GM (EN60601-1), CE (Medical Device Directive), CB (IEC60601-1), cTÜVus (UL60601-1, CSA-C22.2 No.601-1), FCC-B, Canadian ICES-003-B, c-Tick, FDA 510(k) [2], VCCI-B, EIZO Eco Products 2006, RoHS	TCO'03, TÜV/Ergonomics (including ISO 13406-2), TÜV/GS, c-Tick, CE, CB, UL (cTÜVus), CSA (cTÜVus), FCC-B, Canadian ICES-003-B, TÜV/S, VCCI-B, EPA ENERGY STAR®, EIZO Eco Products 2006, RoHS	TCO'03, TÜV/Ergonomics (including ISO 13406-2), TÜV/GS, c-Tick, CE, CB, UL (cTÜVus), CSA (cTÜVus), FCC-B, Canadian ICES-003-B, TÜV/S, VCCI-B, EPA ENERGY STAR®, EIZO Eco Products 2006, RoHS	TCO'03, TÜV/Ergonomics (including ISO 13406-2), TÜV/GS, c-Tick, CE, CB, UL (cTÜVus), CSA (cTÜVus), FCC-B, Canadian ICES-003-B, TÜV/S, VCCI-B, EPA ENERGY STAR®, EIZO Eco Products 2006, RoHS
Supplied Accessories	AC power cord, Dual-Link signal cable (DVI-D ~ DVI-D), signal cable(DVI-D ~ DVI-D), USB cable, EIZO LCD Utility Disk (user's manual, RadiCS LE, ScreenManager Pro for Medical), ScreenCleaner (MX300W-C only), warranty card	AC power cord, signal cables (DVI-D ~ DVI-D, DVI-I ~ D-Sub mini 15 pin), USB cable, EIZO LCD Utility Disk (user's manual, RadiCS LE, ScreenManager Pro for Medical), warranty card	AC power cord, signal cables (DVI-D ~ DVI-D, D-Sub mini 15 pin ~ D-Sub mini 15 pin), USB cable, EIZO LCD Utility Disk (user's manual, RadiCS LE, ScreenManager Pro for Medical), warranty card	AC power cord, signal cables (DVI-D ~ DVI-D, D-Sub mini 15 pin ~ D-Sub mini 15 pin), USB cable, EIZO LCD Utility Disk (user's manual, RadiCS LE, ScreenManager Pro for Medical), warranty card

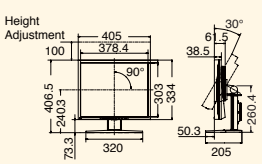
[1]Average response time measured between each grayscale level of 31, 63, 95, 127, 159, 191, and 223. [2]FlexScan MX-Series does not support the display of mammography images for diagnosis.

Dimensions [Unit:mm]









EIZO NANAO CORPORATION
153 Shimokashiwano, Hakusan, Ishikawa 924-8566 Japan
Phone +81-76-277-6792 Fax +81-76-277-6793
radiforce.com

Specifications are subject to change without notice.

All product names are trademarks or registered trademarks of their respective companies. RadiCS is a trademark, and EIZO, FlexScan, and ScreenManager are registered trademarks of Eizo Nanao Corporation.

(071001C) Printed in Japan, 02, 2008, 7K
Published on chlorine-free paper.

Copyright © 2008 EIZO NANAO CORPORATION.
All rights reserved.